

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00629_6 ~ C1216XT-40LXXK-WDEX-TCY-SOXXMW.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00629_6_M-40L
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUE DATE] 9/20/2017
 [UPDATE] 4/5/2018
 [LUMCAT] C1216XT-40L-xxK-WD-EX-TCY-SO
 [LUMINAIRE] Nom. 12" Diam. x 16" H. Accent Biaxial Adjustable Downlight Cylinder
 [OTHER] Internal Reflector, Wide Beam
 [OTHER] Solite Lens, Flush with Lower Trim
 [OTHER] 72.2 Degree Beam Angle
 [OTHER] Aimed at 0 Degrees
 [LAMPCAT] N/A, 19mm LES
 [LAMP] N/A, 83 CRI
 [OTHER] Total Luminaire Watts is approximate
 [OTHER] LEDXT lumen output is the same for all available CCT's
 [OTHER] This report prepared by Spectrum Lighting, scaled from 30L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3436
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	37.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.70
Spacing Criterion (90-270)	0.72
Spacing Criterion (Diagonal)	0.74
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.44 ft (Diameter)
Luminous Width (90-270)	0.44 ft (Diameter)
Luminous Height	0.00 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00629_6 ~ C1216XT-40LXXK-WDEX-TCY-SOXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	38246	41409	37878
55	13921	15264	14730
65	10247	10958	10774
75	11464	11458	11448
85	11802	10591	10763

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0	4813.571	4813.571	4813.571	4813.571	4813.571	4813.571	4813.571	4813.571	4813.571	4813.571
5	4674.758	4755.375	4753.095	4765.081	4734.432	4636.337	4626.339	4549.352	4537.155	4465.431
10	4179.479	4304.500	4297.385	4345.296	4266.837	4107.779	4087.942	3959.515	3936.542	3825.572
15	3476.735	3614.308	3606.105	3664.909	3557.655	3376.148	3352.705	3219.529	3190.006	3073.305
20	2734.646	2857.051	2844.167	2897.464	2781.430	2613.755	2577.571	2461.453	2435.260	2342.947
25	2068.623	2146.293	2148.056	2170.654	2081.859	1949.749	1904.176	1830.443	1790.665	1743.564
30	1542.238	1602.856	1603.023	1627.643	1550.148	1452.224	1435.033	1366.197	1351.275	1289.366
35	1115.193	1176.127	1158.843	1199.960	1131.850	1026.694	1014.829	946.461	945.776	878.613
40	714.392	766.663	743.796	769.914	717.328	625.673	601.912	560.721	545.124	511.654
45	385.875	423.362	417.781	418.258	382.157	333.833	328.838	297.227	278.130	267.187
50	198.163	216.109	222.540	220.240	198.868	181.882	175.697	162.212	160.850	150.973
55	113.929	122.142	124.921	130.059	120.553	111.608	108.421	103.589	106.157	102.430
60	81.305	82.999	83.904	86.921	82.760	80.490	81.660	79.466	81.950	78.294
65	61.792	66.882	66.077	66.252	64.967	68.008	69.598	69.501	66.997	67.050
70	54.937	52.348	55.749	54.196	53.599	58.872	62.115	60.002	60.291	60.577
75	42.335	42.569	42.315	43.256	42.276	56.215	55.533	52.337	52.774	55.255
80	29.397	31.818	29.666	32.552	30.275	48.653	46.264	47.667	45.686	44.843
85	14.676	14.567	13.171	15.519	13.384	29.337	31.173	29.632	28.198	30.975
90	3.092	1.360	2.978	1.667	3.772	14.498	11.900	18.886	10.893	19.369
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	4813.571	4813.571	4813.571	4813.571	4813.571	4813.571	4813.571
5	4474.063	4423.880	4511.684	4577.504	4585.211	4666.368	4674.758
10	3845.553	3792.566	3903.779	4022.290	4028.525	4145.190	4179.479
15	3098.346	3054.407	3167.033	3309.087	3305.290	3440.085	3476.735
20	2361.467	2340.225	2446.341	2573.267	2576.170	2690.560	2734.646
25	1753.359	1747.615	1828.260	1925.534	1942.974	2024.256	2068.623
30	1303.882	1282.288	1355.158	1440.155	1446.507	1521.751	1542.238
35	879.839	869.637	944.103	1014.273	1015.249	1091.952	1115.193
40	520.798	513.808	569.061	627.921	633.212	691.692	714.392
45	281.733	273.102	297.661	333.624	351.400	383.921	385.875

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50	153.422	151.381	165.418	176.386	183.615	201.414	198.163
55	97.199	99.852	107.136	106.439	102.253	112.526	113.929
60	76.536	77.751	80.059	77.654	75.948	77.158	81.305
65	66.978	70.242	69.592	64.067	63.565	62.589	61.792
70	58.965	63.174	62.045	51.722	52.477	53.982	54.937
75	51.874	52.407	57.471	37.520	42.284	44.384	42.335
80	42.974	44.891	46.715	30.796	29.668	27.746	29.397
85	28.271	31.485	29.963	11.411	13.456	13.539	14.676
90	11.801	14.873	21.939	1.236	2.730	1.914	3.092
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	1352.01	N.A.	39.30
0-30	2256.74	N.A.	65.70
0-40	2897.58	N.A.	84.30
0-60	3291.32	N.A.	95.80
0-80	3408.95	N.A.	99.20
0-90	3433.64	N.A.	99.90
10-90	3010.71	N.A.	87.60
20-40	1545.57	N.A.	45.00
20-50	1831.47	N.A.	53.30
40-70	460.75	N.A.	13.40
60-80	117.64	N.A.	3.40
70-80	50.63	N.A.	1.50
80-90	24.69	N.A.	0.70
90-110	2.45	N.A.	0.10
90-120	2.45	N.A.	0.10
90-130	2.45	N.A.	0.10
90-150	2.45	N.A.	0.10
90-180	2.45	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	3436.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	422.94
10-20	929.07
20-30	904.73
30-40	640.84
40-50	285.90
50-60	107.83
60-70	67.01
70-80	50.63
80-90	24.69
90-100	2.45
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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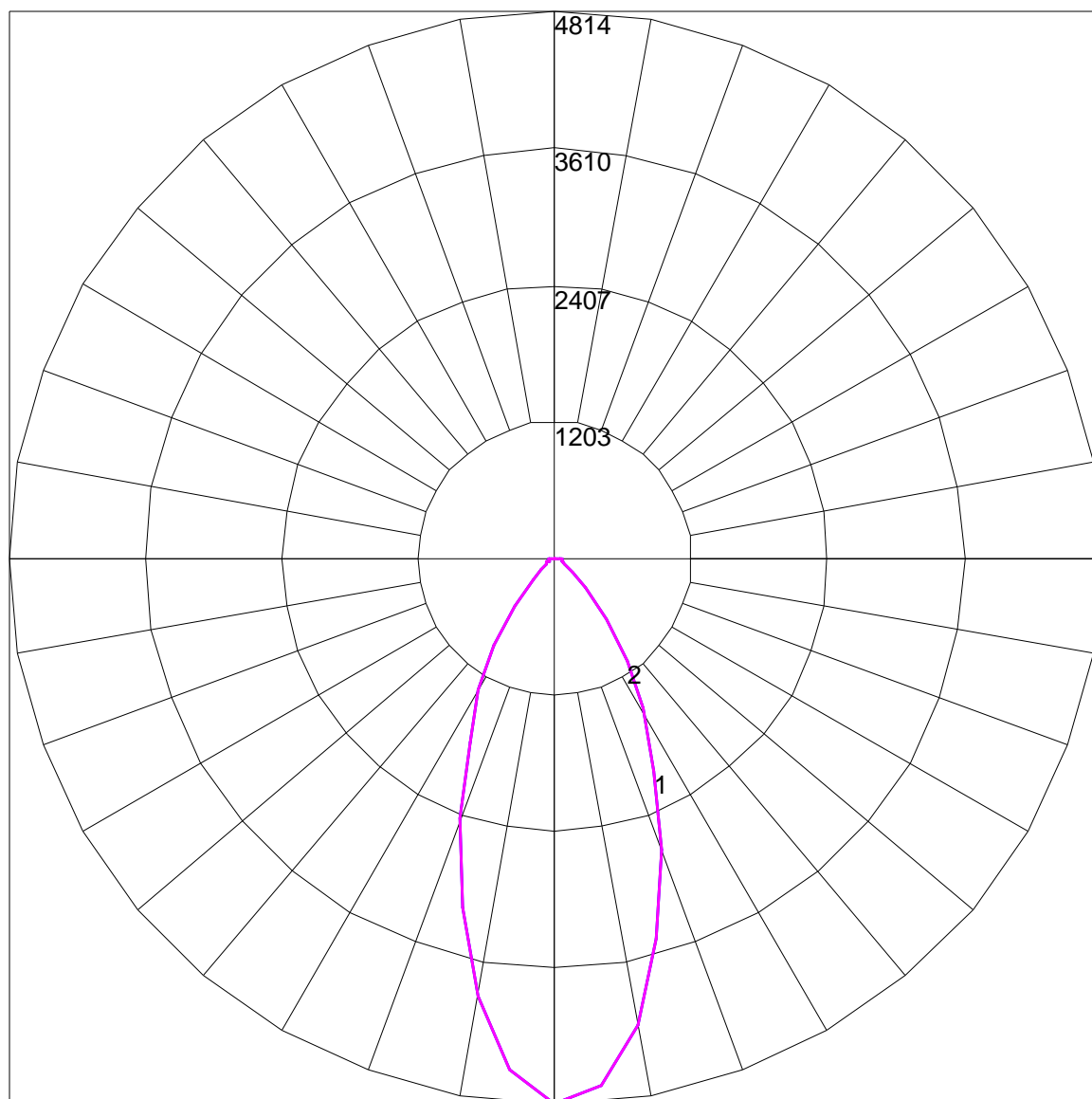
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78
4	95	87	81	77	94	86	81	76	84	79	76	82	78	75	80	77	74	72
5	90	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	65	71	67	64	63
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59
8	78	68	62	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55
9	74	64	58	54	73	64	58	54	63	57	54	62	57	53	61	56	53	52
10	71	61	55	51	70	60	54	51	59	54	50	59	54	50	58	53	50	49

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POLAR GRAPH



Maximum Candela = 4813.571 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (0 - 180)